

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (original) A method of reducing the level of saturated fatty acids relative to the level of unsaturated fatty acids in bovine milk by:

(a) determining which cows of a herd produce milk containing β -casein having a proline at position 67, where the herd comprises cows that produce milk containing β -casein having a proline at position 67 and cows that produce milk β -casein having a histidine at position 67, by testing genetic material of individual cows of the herd for the presence of DNA encoding β -casein having a proline residue at position 67 or by testing milk produced by individual cows of the herd (or a product produced from that milk) for the presence of β -casein having a proline at position 67;

(b) selecting cows that have DNA encoding β -casein having a proline residue at position 67 or that produce milk containing β -casein having a proline at position 67; and

(c) milking the selected cows to give milk having a reduced level of saturated fatty acids relative to the level of unsaturated fatty acids compared with milk obtained from the herd.

2. (original) A method as claimed in claim 1 where the 1-casein having a proline at position 67 includes one or more of β -caseins A2, A3, D, E and F.

3. (original) A method as claimed in claim 2 where the f-casein having a proline at position 67 is p-casein A2.

4. (original) A method as claimed in claim 1 where the β -casein having a histidine at position 67 includes one or more of 3-caseins A1, B, and C.

5. (original) A method as claimed in claim 4 where the p-casein having a histidine at position 67 is β -casein A1.

6. (previously presented) A method as claimed in claim 1 where the level of short and medium chain saturated fatty acids having 6 to 14 carbon atoms in each chain (C6:0-C14:0) is reduced compared with milk obtained from the herd.

7. (previously presented) A method as claimed in claim 1 where determining which cows of the herd produce milk containing β -casein having a proline at position 67 is by testing genetic material of cows for the presence of DNA encoding β -casein having a proline at position 67.

8. (previously presented) A method as claimed claim 1 where determining which cows of a herd produce milk containing β -casein having a proline at position 67 is by testing the milk

produced by cows (or a product produced from that milk) for the presence of β -casein having a proline at position 67.

9. (previously presented) A method as claimed in claim 1 where the genetic material of the cows may be any tissue containing, or which contained, nucleated cells.

10. (original) A method as claimed in claim 9 where the genetic material is obtained from blood, hair, or milk.

11-16. (cancelled)